

“IMPERIAL” HAND HAMMER DRILLS

TYPES “MV-1” AND “MV-2”

**INGERSOLL-RAND COMPANY
11 BROADWAY, NEW YORK**

Form No. 4015

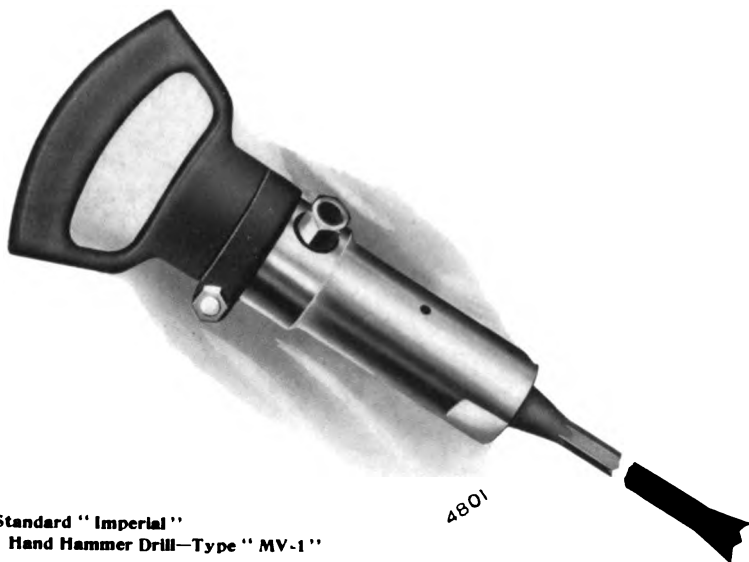
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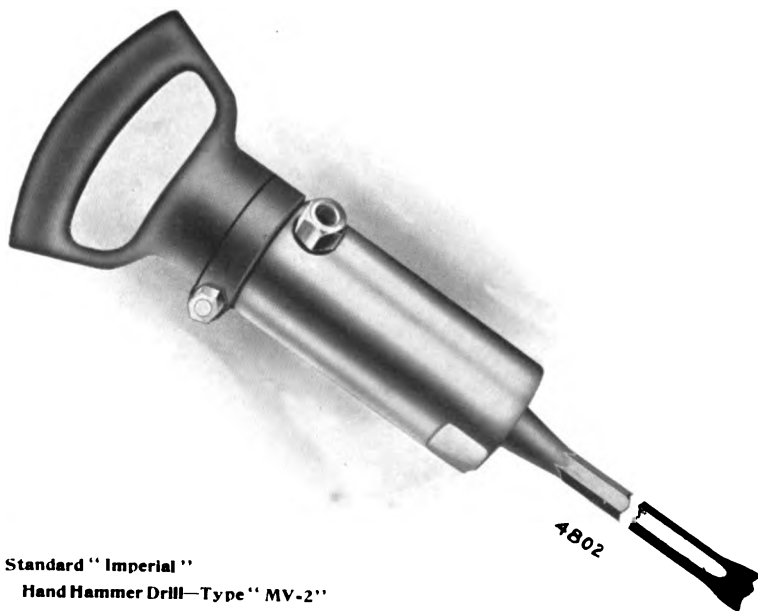
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Putting in a Down Hole in a Block with the “Imperial” Hand Hammer Drill

"IMPERIAL" HAND HAMMER DRILLS



**Standard "Imperial"
Hand Hammer Drill—Type "MV-1"**



**Standard "Imperial"
Hand Hammer Drill—Type "MV-2"**

"IMPERIAL" HAND HAMMER DRILLS

THE "Imperial" Hand Hammer Drills, Types "MV-1" and "MV-2," are valveless tools, having but one moving part—the piston or hammer—which itself performs the function of a valve in controlling the admission and exhaust of air. These two drills are identical in the dimensions of their working parts and differ only in weight, so that one description will cover both.

The "MV-1" and "MV-2" are intended for drilling holes up to 48 inches in depth, bottoming at from 1 to 1 1-2-inch diameter. They use hollow steels with a collar and hexagon shank 7-8 x 3 inches. A portion of the exhaust escaping through the steel blows the dust from before the bit, clearing the face. Air admission is at the side of the barrel. A large spade handle is used, screwed on the barrel and locked by a handle nut.

A short length of hose goes with each tool, carrying a stop-cock or throttle valve. The best of materials are used throughout, the wearing parts being of hardened and ground steel.

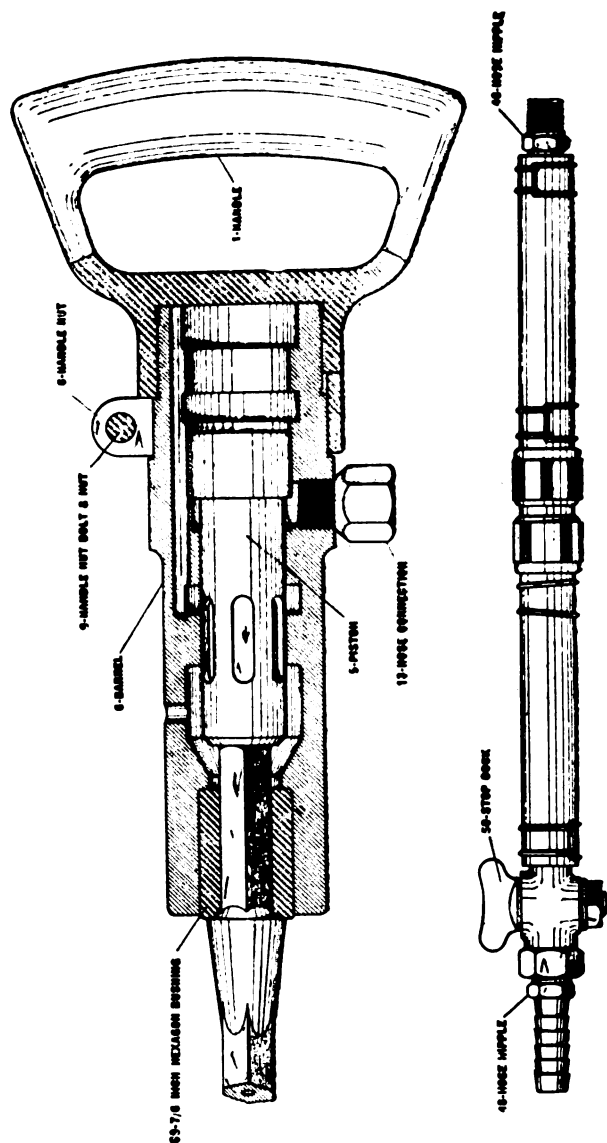
The "MV-2" drill is eight pounds heavier than the "MV-1," this increase being secured by enlarging the barrel. The object of this is to meet the demands of those who want a heavier tool, giving greater weight on the bit in down holes without manual pressure. The specifications of these two tools are as follows:

SYMBOL	"IMPERIAL MV-1"	"IMPERIAL MV-2"
Cylinder Diameter, inches	1 ⁷ / ₈ and 1 ¹ / ₄	1 ⁷ / ₈ and 1 ¹ / ₄
Stroke, inches	2 ¹ / ₄	2 ¹ / ₄
Length over all, inches	15	15
Size of Air Inlet, inches	³ / ₈	³ / ₈
Weight, lbs.	22	30

The following air consumptions have been recorded for these tools under water-displacement meter test:

AIR PRESSURE	CU. FT. FREE AIR PER MIN.
60	12
70	15
80	19
90	23
100	27

"IMPERIAL" HAND HAMMER DRILLS



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1-MV-1 Handle
5-MV-1 Piston
6-MV-1 Barrel

6-MV-2 Barrel
8-MV-1 Handle Clamp
9-B-1 Handle Clamp Bolt and Nut
13-MV-1 Hose Connection

46-A-1 Hose Connection
59-MV-1 Stop Cock
69-MV-1 Hexagon Cylinder Bushing

Section of "Imperial" Hand Hammer Drills (Types "MV-1" and "MV-2") with Duplicate Part List